CONTENTS OF VOLUME 107C

Vol. 107C, No. 1

Editorial Note	iii	
Mini Reviews		
T. Roeder	1	Biogenic amines and their receptors in insects
J. Y. Dubé	13	Prostatic kallikreins: biochemistry and physiology
General Papers		
F. Basaglia and C. Cucchi	21	Effects of phenylhydrazine on the electrophoretic and isoelectric focusing behaviour of malate dehydrogenase isozymes in <i>Ictalurus</i> species (Ictaluridae, Teleostei)
S. Homma	29	In vitro motor activity of the lamprey (Lampetra japonica) intestine
S. M. B. Romero, A. Hoffmann and L. Menescal-de-Oliveira	37	Is there an opiate receptor in the snail Megalobulimus sancti- pauli? Action of morphine and naloxone
M. Mita, K. Oishi, M. K. Uchida and T. Hashimoto	41	All-or-none shortening of α -toxin-permeabilized single smooth muscle cells from guinea-pig taenia caecum and acetylcholine-induced Ca^{2+} sensitization
V. Hayssen, S. Gunawardhana and J. Meyer	51	The agouti coat-color locus may influence brain catechol- amines: regional differences in norepinephrine and dopamine in the brains of two color-morphs of deermice (<i>Peromyscus</i> maniculatus)
P. S. Reddy, M. Devi, R. Sarojini, R. Nagabhushanam and M. Fingerman	57	Cadmium chloride induced hyperglycemia in the red swamp crayfish, <i>Procambarus clarkii</i> : possible role of crustacean hyperglycemic hormone
S. Daniels and C. J. Duncan	63	Is the phospholipase A_2 pathway implicated in sarcolemma damage of the rat heart?
G. Hrčkova and S. Velebny	71	Studies on the effects of free and liposomised albendazole on infections of <i>Mesocestoides corti</i> tetrathyridia (Cestoda: Cyclophyllidea) in laboratory mice
S. Genedani, M. Bernardi, P. Fontanili, E. Ottaviani and C. Franceschi	79	Influence of endorphins on the migration of molluscan hemocytes
M. S. Hetherington, J. D. McKenzie, H. G. Dean and W. Winlow	83	A quantitative analysis of the biogenic amines in the central ganglia of the pond snail, Lymnaea stagnalis (L.)
H. Downes, E. A. Kienle and C. Pederson	95	Metamorphosis and the steady state anesthetic concentrations of tricaine, benzocaine and ethanol
M. Maruyama and K. Takeda	105	Electrophysiologically potent non-competitive glutamate antagonists at crayfish neuromuscular junctions are also potent inhibitors of [3H]MK801 binding to synaptic membranes from rat central nervous system
T. Kuriu, K. Taneda and T. Matsuoka	111	Certain components of lettuce juice modify the thermo- response of the ciliated protozoan Blepharisma japonicum

119 Identification of two allatostatins from the CNS of the R. J. Weaver, Z. A. Freeman, cockroach Periplaneta americana: novel members of a family M. G. Pickering and J. P. Edwards of neuropeptide inhibitors of insect juvenile hormone biosynthesis A. Walcourt-Ambakederemo 5-HT receptors on identified Lymnaea neurones in culture. and W. Winlow Pharmacological characterization of 5-HT_{1A} receptors A. Nicotra, G. Santangelo and O. Senatori 143 Serotonin and β -phenylethylamine deamination by semicarbazide-sensitive amine oxidase from Callista chione hepatopancreas R. Schipp and A. Fiedler 149 Cholinergic mechanisms in the neurocontrol of the cephalic aorta of the cephalopod Sepia officinalis L. C. L. Holder, W. Slikker, Jr and 159 Comparison of the metabolism and elimination of pyrilamine maleate in the rat, mouse and female rhesus monkey H. C. Thompson, Jr T. Krøl, M. Schmidt, A. Kolataj and 165 Vinblastine-induced autophagy in mouse liver B. Witek

	v	Tol. 107C, No. 2
Mini Review		
R. D. Handy	171	Intermittent exposure to aquatic pollutants: assessment, toxicity and sublethal responses in fish and invertebrates
General Papers		
Y. Iwabuchi, S. Iwasaki and T. Masuhara	185	Effects of cholinergic and adrenergic agonists on the secretion of fluid and protein by submandibular glands of the guinea-pig and the mouse
R. Abdul-Razzak, J. Bagust and G. A. Kerkut	195	Postnatal changes in the dorsal root reflex in the isolated spinal cord of the hamster, Mesocricetus auratus
R. Abdul-Razzak, J. Bagust and G. A. Kerkut	205	Postnatal changes in the role of NMDA in the isolated spinal cord of the hamster, Mesocricetus auratus
N. Díaz-Alejo, M. A. Sogorb, J. L. Vicedo, J. Barril and E. Vilanova	213	Non-calcium dependent activity hydrolysing organophos- phorus compounds in hen plasma
P. Thomas, K. N. Baer and R. B. White	221	Isolation and partial characterization of metallothionein in the liver of the red-eared turtle (<i>Trachemys scripta</i>) following intraperitoneal administration of cadmium
L. C. Gershman, R. R. Kyle, H. J. Bryant and P. H. Abbrecht	227	Differential response of dog and pig tracheal smooth muscle to the acetylcholinesterase inhibitor soman
J. L. Ram, K. Judge and M. A. Jednak	235	Antagonists of cholinergic and serotonergic responses of Aplysia buccal muscle
C. G. Scanes, T. A. Peterla and R. M. Campbell	243	Influence of adenosine or adrenergic agonists on growth hormone stimulated lipolysis by chicken adipose tissue in vitro
J. Pavičić, M. Škreblin, I. Kregar, M. Tušek-Žnidarič and P. Stegnar	249	Embryo-larval tolerance of <i>Mytilus galloprovincialis</i> , exposed to the elevated sea water metal concentrations—I. Toxic effects of Cd, Zn and Hg in relation to the metallothionein level
H. Honda, T. Iwata, S. Takagi and K. Bando	259	Comparative effects of loperamide hydrochloride on prosta- glandin E ₁ -induced contraction in isolated fundus and ileum of guinea pigs

265 Ability of BKME (bleached kraft mill effluent) exposed white M. M. Gagnon, J. J. Dodson and P. V. Hodson suckers (Catostomus commersoni) to synthesize steroid hormones 275 Serotonin-degradative pathways in the toad (Bufo bufo japonicus) brain: clues to the pharmacological analysis of N. Takeda human psychiatric disorders J. D. Pediani, P. E. McEwan, H. Y. Elder 283 The effect of removing external sodium upon the cholinergic and S. M. Wilson regulation of potassium permeability in the rat submandibular gland in vitro I. Kakuta, K. Ishii and S. Murachi 289 Effects of diluted sewage on biochemical parameters of carp, Cyprinus carpio 295 Hypoxia inverts the negative chronotropic response to nor-S. Kawana, H. Kimura, A. Miyamoto, H. Ohshika and A. Namiki epinephrine in normoxia in cultured neonatal rat cardiac myocytes: role of the α_1 adrenergic signal transduction system V. L. Arvanov, H. C. Chou, R. C. Chen 305 Pre- and post-synaptic actions of memantine at cholinergic and M. C. Tsai central synapse of Achatina fulica V. M. Grishchenko, O. M. Zherelova, Purification of a protein from Nitellopsis obtusa cells and its T. G. Orlova and N. Ya. Orlov involvement in the regulation of potential-dependent Ca2+ channels

	,	Vol. 107C, No. 3
General Papers		
M. Oz and G. B. Frank	321	The effects of verapamil on tetanic contractions of frog's skeletal muscle
R. Hardeland and B. Fuhrberg	331	On the pleiotropy of indoleamine actions in a dinoflagellate, Gonyaulax polyedra: comparison of 5-methoxytryptamine with 5- and 6-fluorotryptamines
J. L. Glenn, R. C. Straight and T. B. Wolt	337	Regional variation in the presence of canebrake toxin in Crotalus horridus venom
F. Alcutt and J. T. Pinto	347	Glutathione concentrations in the hard clam, <i>Mercenaria</i> mercenaria, following laboratory exposure to lead (a potential model system for evaluating exposure to carcinogens and toxins)
J. U. Walker and J. L. Ram	353	Effects of deionized water on sensitivity of zebra mussels (Dreissena polymorpha) to toxic chemicals
E. K. Johnson and C. L. Ownby	359	The role of extracellular ions in the pathogenesis of myonecrosis induced by a myotoxin isolated from Broad-Banded Copperhead (Agkistrodon contortrix laticinctus) venom
A. Morello, I. Lipchenca, B. K. Cassels, H. Speisky, J. Aldunate and Y. Repetto	367	Trypanocidal effect of boldine and related alkaloids upon several strains of Trypanosoma cruzi
H. Lorković, O. P. Balezina and U. Jäger	373	Acetylcholine-evoked currents in juvenile mouse muscles
H. Raza and W. Montague	379	Metabolism of benzo(a)pyrene, dimethylbenzanthracene and aflatoxin B1 by camel liver microsomes
F. Punzo and D. F. Williams	387	Free amino acids and biogenic amines in the brain of the carpenter ant, Campanotus floridanus (Buckley) (Hymenoptera, Formicidae)

A. Hirashima, T. Nagano and M. Eto	393	Effect of various insecticides on the larval growth and biogenic amine levels of <i>Tribolium castaneum</i> Herbst
E. Arınç and A. Şen	399	In vivo effects of the anesthetic, benzocaine, on liver microsomal cytochrome P450 and mixed-function oxidase activities of gilthead seabream (Sparus aurata)
E. Arınç and A. Şen	405	Effects of in vivo benzo(a)pyrene treatment on liver microsomal mixed-function oxidase activities of gilthead seabream (Sparus aurata)
E. Russanov, H. Zaporowska, E. Ivancheva, M. Kirkova and S. Konstantinova	415	Lipid peroxidation and antioxidant enzymes in vanadate- treated rats
S. G. Konstantinova and E. M. Russanov	423	Liver superoxide dismutases after copper deficiency and/or indomethacin treatment of rats
R. Chávez, N. Corona, C. García and E. Chávez	429	The effect of cyclosporin A on Hg ²⁺ -poisoning mitochondria. <i>In vivo</i> and <i>in vitro</i> studies
M. C. Galli, L. Cabrini, F. Caboni, M. Cipollone and L. Landi	435	Peroxidation potential of rat thymus during development and involution
M. P. Ireland	441	Interaction and effects of molybdenum compounds on growth and mineral content of <i>Achatina fulica</i> and <i>Arion ater</i> (Gastropoda: Pulmonata)
R. W. Rosebrough and B. A. Russell	447	In vitro regulation of lipogenesis in turkey liver explants
W. L. Johnston and N. T. Glanville	455	Acute dietary PCPA treatment decreases the K_D of brain [3 H]5-HT binding in rainbow trout, <i>Oncorhynchus mykiss</i> , fed a high carbohydrate diet
K. D. Zimmerman and D. J. Watters	463	Ventilation rates in a prey species of fish (Dascyllus aruanus) treated with the venom fractions of the olive sea snake, Aipysurus laevis
T. Tsuda, S. Aoki, T. Inoue and M. Kojima	469	Accumulation and excretion of pesticides used as insecticides or fungicides in agricultural products by the willow shiner <i>Gnathopogon caerulescens</i>
O. M. Zherelova, V. M. Grishchenko and L. M. Chaylakhyan	475	Blockers of Ca ²⁺ channels in the plasmalemma of perfused <i>Characeae</i> cells
Volume Contents, Subject and Author Index for Volume 107C	i	

